

New England Biolabs Certificate of Analysis

Product Name: *EpiMark® 5-hmC and 5-mC Analysis Kit*
 Catalog Number: *E3317S*
 Packaging Lot Number: *10193051*
 Expiration Date: *06/2024*
 Storage Temperature: *-20°C*
 Specification Version: *PS-E3317S v1.0*

EpiMark® 5-hmC and 5-mC Analysis Kit Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
S2200SVIAL	Uridine Diphosphate Glucose, 2 mM	10178309	Pass
S0540AVIAL	Control DNA Primer Mix	10191240	Pass
R0171AVIAL	HpaII	10191239	Pass
R0106AVIAL	MspI	10191238	Pass
P8107AVIAL	Proteinase K, Molecular Biology Grade	10111220	Pass
N0482AVIAL	hmC Control DNA	10191237	Pass
N0481AVIAL	mC Control DNA	10191236	Pass
N0480AVIAL	Unmodified Control DNA	10191235	Pass
M0357AVIAL	T4 Phage β -glucosyltransferase (T4-BGT)	10191234	Pass
B7004SVIAL	NEBuffer™ 4	10184703	Pass

Assay Name/Specification	Lot # 10193051
<p>* Individual Product Component Note Standard Quality Control Tests are performed for each component included in EpiMark® 5-hmC and 5-mC Analysis Kit and meet the designated specifications.</p>	Pass
<p>Functional Testing (EpiMark® 5-hmC and 5-mC Analysis Kit) Unmodified Control DNA was treated with T4-BGT and UDP-Glucose to convert 5-hmC to 5-ghmC and digested with either MspI or HpaII as described in the manual. HpaII cleavage is blocked by 5-mC, 5-hmC and 5-ghmC resulting in a PCR product that confirms the presence of both 5-mC and 5-hmC. MspI cleavage is blocked only by 5-ghmC resulting in PCR product that confirms the presence of 5-hmC.</p>	Pass

This product has been tested and shown to be in compliance with all specifications.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.



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Production Scientist
22 Jun 2021



Michael Tonello
Packaging Quality Control Inspector
30 May 2023